Option 2UA Microamp Measurement Option For the Agilent N6760 Precision DC Power Modules

New for 2008

Models: N6761A Option 2UA
N6762A Option 2UA

Data Sheet

Key Features of Option 2UA

- **Directly replaces Option 1UA**
- **Adds 200 µA full-scale current measurement range**
- **Suitable for measurements down to 1 µA**
- **Includes output disconnect relays (same as Option 761)**
- **Supported in all N6700 Low-Profile Modular Power System mainframes**
- **Supported in the N6705A DC Power Analyzer mainframe**
- **Stable with capacitive loads**
- **Up to 3 A continuous output current on N6762A (or up to 1.5 A on N6761A)**
- **User configurable measurement integration time to allow tradeoff between measurement speed and noise rejection**

Application

- Leakage current measurement of handset power amplifiers and other semiconductor devices
- Sleep mode current measurement of battery powered devices

Specifications

- Ammeter Measurement Accuracy (at 23°C ±5°C) in 200 µA range: 0.5% of reading + 100 nA
- Measurement Temperature Coefficient per °C in 200 µA range: 200 ppm + 2 nA/°C
- When Option 2UA is installed, all DC source specifications and all other measurement specifications of the two higher ranges remain unchanged
- For complete DC source specifications and all other measurement specifications, see 5989-1411EN (for use in N6700 Low-Profile Modular Power System mainframes) or 5989-6319EN (for use in the N6705A DC Power Analyzer)

Description

For Agilent models N6761A and N6762A, Option 2UA adds a third measurement range capable of measuring 2 µA accurately. When using this 200 µA full-scale current measurement range, all Agilent N6761A and N6762A measurement features will work just as they do on the 100 mA full-scale current measurement range and the 1.5 A (N6761A) or 3 A (N6762A) full-scale current measurement range. These measurement features include the digitizer in the N6700 Low-Profile mainframe and the scope and data logger of the N6705A DC Power Analyzer. In addition to the 200 µA measurement range, Option 2UA adds mechanical relays that disconnect both the plus and minus side of the power supply, including the sense leads.

Option 2UA is a direct replacement of Option 1UA. It increases the measurement range from 100 µA to 200 µA with the same specifications and for the same price.

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Upgrades and compatibility

N6761A with Option 2UA and N6762A with Option 2UA are supported in the following mainframes:

N6705A DC Power Analyzer mainframe

- Requires firmware version A.02.09 or higher
- Firmware is available as a free download from **www.agilent.com/find/N6705firmware**

N6700A, N6700B, N6701A, N6702A Low-Profile MPS mainframes

- Requires firmware version C.02.15 or higher
- Firmware is available as a free download from **www.agilent.com/find/N6700firmware**

Option 2UA must be ordered at the time of purchase of the N6761A or N6762A module. Previously purchased N6761A or N6762A modules cannot be upgraded to include Option 2UA.

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Product specifications and descriptions in this document subject to change without notice.

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